

CELL LINE THAT COMPRISES THE PROMOTER OF CYCLOOXYGENASE-2
(COX-2) AND A REPORTER GENE, AND USE THEREOF IN THE
SEARCH FOR SELECTIVE INHIBITORS OF THE TRANSCRIPTIONAL
INDUCTION OF COX-2

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ABSTRACT

The cell lines comprises a DNA construct that
comprises all or part of a promoter sequence of the gene
10 coding for cyclooxygenase 2 (cox-2) and a reporter gene,
operatively joined to each other, such that said promoter
sequence of the cox-2 gene controls the expression of
said reporter gene in response to a suitable stimulus.

The assay method comprises bringing said cell line into
15 contact with the compound to be assayed and determining
the existence of a signal indicative of the expression of
activity due to the reporter gene. This method is
suitable for the induction at a transcriptional level of
cox-2 by suitable stimuli.